QC ABSTRACT

NAME OF WORK: Construction of CC Drain and Covering Slabs at in Ward No. 10 Doddabommasandra Vidyaranyapura Sub Division.

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	PCC(M15)	Compressive Strength(7days and 28days)	2 set /6-15 cum	9.24	4	4
7	RCC(M20)	Compressive Strength(7days and 28days)	5 set /50-100 cum	97.02	10	10
8	Mortar Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		Compacted Bulk Density	One Test		1	1
		Loose Bulk Density	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2022-03-28-40** **Date: 30-12-21**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC Drain and Covering Slabs at in Ward No. 10 Doddabommasandra Vidyaranyapura Sub Division.
Agency	:	SRI. BHARATH.S, BEECHAGONDAHALLY, S.K HALLY POST, KOLAR, TALUK
Customer's Reference	:	BBMP/EE/BTP/WO/194/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-12-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11) 1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	28-12-21
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.55	–
2	Finess by Air permeablity method (m^2/kg,Min)	287.5	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2022-03-28-40** **Date: 25-01-22**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC Drain and Covering Slabs at in Ward No. 10 Doddabommasandra Vidyaranyapura Sub Division.
Agency	:	SRI. BHARATH.S, BEECHAGONDAHALLY, S.K.HALLY POST, KOLAR, TALUK
Customer's Reference	:	BBMP/EE/BTP/WO/194/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-12-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	28-12-21
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	56.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-03-28-40** **Date: 30-12-21**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC Drain and Covering Slabs at in Ward No. 10 Doddabommasandra Vidyaranyapura Sub Division.
Agency	:	SRI. BHARATH.S, BEECHAGONDAHALLY, S.K.HALLY POST, KOLAR, TALUK
Customer's Reference	:	BBMP/EE/BTP/WO/194/2020-21
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	27-12-21
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	27-12-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	318	318	2.1	97.9	90-100
3	20 mm	7441	7759	51.7	48.3	30-70
4	10 mm	5152	12911	86.1	13.9	10-35
5	4.75 mm	1711	14622	97.5	2.5	0-5
6	Pan	378	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-03-28-40** **Date: 30-12-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	8.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	7.5	
3	Specific Gravity	2.61	–
4	Bulk Density(Loose) (Kg/l)	1.38	–
5	Bulk Density(Compacted) (Kg/l)	1.42	–
6	Water Absorption(%)	0.25	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-03-28-40** **Date: 30-12-21**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC Drain and Covering Slabs at in Ward No. 10 Doddabommasandra Vidyaranyapura Sub Division.
Agency	:	SRI. BHARATH.S, BEECHAGONDAHALLY, S.K.HALLY POST, KOLAR, TALUK
Customer Reference	:	BBMP/EE/BTP/WO/194/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-12-21
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	27-12-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	255	255	5.1	94.9	90-100
3	10 mm	2789	3044	60.9	39.1	25-55
4	4.75 mm	1545	4589	91.8	8.2	0-10
5	Pan	411	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-03-28-40** **Date: 30-12-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.4	
3	Specific Gravity	2.65	_
4	Bulk Density(Loose) (Kg/l)	1.53	_
5	Bulk Density(Compacted) (Kg/l)	1.55	_
6	Water Absorption(%)	0.22	_
7	Aggregate crushing Value(%)	24.1	Max 30% for Aggregates to be used in concrete for wearing Surface. In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

* The results obtained are satisfactory as per standard requirements.

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Quality Manager

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2022-03-28-40** **Date: 30-12-21**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC Drain and Covering Slabs at in Ward No. 10 Doddabommasandra Vidyaranyapura Sub Division.
Agency	:	SRI. BHARATH.S, BEECHAGONDAHALLY, S.K.HALLY POST, KOLAR, TALUK
Customer's Reference	:	BBMP/EE/BTP/WO/194/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-12-21
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	27-12-21
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	85	85	8.5	91.5	90-100	90-100	90-100	95-100
3	2.36 mm	145	230	23.0	77.0	60-95	75-100	85-100	95-100
4	1.18 mm	165	395	39.5	60.5	30-70	55-90	75-100	90-100
5	600 micron	187	582	58.2	41.8	15-34	35-59	60-79	80-100
6	300 micron	175	757	75.7	24.3	5-20	8-30	12-40	15-50
7	150 micron	155	912	91.2	8.8	0-10	0-10	0-10	0-15
8	Pan	88	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2022-03-28-40**

Date: 30-12-21

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	7.9	Uncrushed fine Aggregate Max 3%. Crushed Fine aggregate Max 15%. Mixed Fine aggregate Max 12%. Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF STEEL

Date: 30-12-21

Lab ID	:	**CP-2022-03-28-40**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC Drain and Covering Slabs at in Ward No. 10 Doddabommasandra Vidyaranyapura Sub Division.
Agency	:	SRI. BHARATH.S, BEECHAGONDAHALLY, S.K.HALLY POST, KOLAR. TALUK
Customer's Reference	:	BBMP/EE/BTP/WO/194/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-12-21
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test	:	28-12-21

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 18/01/2022

Lab ID	:	**CP-2022-03-28-40**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore
Project Name	:	Construction of CC Drain and Covering Slabs at in Ward No 10 Doddabommasandra Vidyaranyapura Sub Division
Agency	:	SRI BHARATH S, BEECHAGONDAHALLY, S K HALLY POST, KOLAR, TALUK
Customer's Reference	:	BBMP/EE/BTP/WO/194/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-01-22
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	18/01/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	PCC	M15	11/01/2022	18/01/2022	150.46 X 150.60 X 149.63	22658	8.751	276.3	12.2	12.5
2	PCC	M15	11/01/2022	18/01/2022	149.10 X 149.53 X 151.35	22295	8.319	284.7	12.8	
3	PCC	M15	11/01/2022	18/01/2022	149.78 X 151.85 X 150.99	22745	9.098	283.3	12.5	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-03-28-40** **Date: 08/02/2022**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Construction of CC Drain and Covering Slabs at in Ward No. 10 Doddabommasandra Vidyaranyapura Sub Division.

Agency : SRI. BHARATH.S, BEECHAGONDAHALLY, S.K.HALLY POST, KOLAR, TALUK

Customer's Reference : BBMP/EE/BTP/WO/194/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-01-22

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/02/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	11/01/2022	08/02/2022	151.08 X 149.90 X 150.68	22646	8.119	396.7	17.5	17.5
2	PCC	M15	11/01/2022	08/02/2022	151.47 X 150.52 X 150.82	22799	9.046	396.7	17.4	
3	PCC	M15	11/01/2022	08/02/2022	151.22 X 151.15 X 150.27	22857	8.979	400.4	17.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-03-28-40** **Date: 18/01/2022**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Construction of CC Drain and Covering Slabs at in Ward No 10 Doddabommasandra Vidyaranyapura Sub Division

Agency : SRI BHARATH S, BEECHAGONDAHALLY, S K HALLY POST, KOLAR, TALUK

Customer's Reference : BBMP/EE/BTP/WO/194/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-01-22

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl 5

Date of test : 18/01/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	11/01/2022	18/01/2022	151.20 X 149.34 X 151.14	22581	8.909	290.6	12.9	12.4
2	PCC	M15	11/01/2022	18/01/2022	150.15 X 149.53 X 149.94	22452	8.164	275.6	12.3	
3	PCC	M15	11/01/2022	18/01/2022	150.99 X 149.04 X 149.64	22504	9.025	272.4	12.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-03-28-40** **Date: 08/02/2022**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Construction of CC Drain and Covering Slabs at in Ward No. 10 Doddabommasandra Vidyaranyapura Sub Division.

Agency : SRI. BHARATH.S, BEECHAGONDAHALLY, S.K.HALLY POST, KOLAR, TALUK

Customer's Reference : BBMP/EE/BTP/WO/194/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-01-22

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/02/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	11/01/2022	08/02/2022	151.23 X 149.59 X 151.43	22623	8.826	394.8	17.5	17.7
2	PCC	M15	11/01/2022	08/02/2022	149.03 X 149.36 X 149.44	22259	8.716	390.8	17.6	
3	PCC	M15	11/01/2022	08/02/2022	151.02 X 149.15 X 150.05	22525	8.669	404.2	17.9	

* The results obtained are satisfactory as per standard requirements.

Note:

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-03-28-40** **Date: 28/01/2022**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Construction of CC Drain and Covering Slabs at in Ward No. 10 Doddabommasandra Vidyaranyapura Sub Division.

Agency : SRI. BHARATH.S, BEECHAGONDAHALLY, S.K.HALLY POST, KOLAR, TALUK

Customer's Reference : BBMP/EE/BTP/WO/194/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-01-22

Customer ID : Drain Concrete Bottom Raft

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/01/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete Bottom Raft	M20	21/01/2022	28/01/2022	149.92 X 151.78 X 151.74	22755	8.277	419.1	18.4	18.4
2	Drain Concrete Bottom Raft	M20	21/01/2022	28/01/2022	150.84 X 149.60 X 151.37	22565	9.069	418.1	18.5	
3	Drain Concrete Bottom Raft	M20	21/01/2022	28/01/2022	151.61 X 149.93 X 151.51	22730	8.334	412.3	18.1	

* The results obtained are satisfactory as per standard requirements.

Note:

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-03-28-40** **Date: 18/02/2022**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Construction of CC Drain and Covering Slabs at in Ward No. 10 Doddabommasandra Vidyaranyapura Sub Division.

Agency : SRI. BHARATH.S, BEECHAGONDAHALLY, S.K.HALLY POST, KOLAR, TALUK

Customer's Reference : BBMP/EE/BTP/WO/194/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-01-22

Customer ID : Drain Concrete Bottom Raft

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/02/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete Bottom Raft	M20	21/01/2022	18/02/2022	151.14 X 149.28 X 149.75	22563	8.871	535.4	23.7	23.4
2	Drain Concrete Bottom Raft	M20	21/01/2022	18/02/2022	149.42 X 149.12 X 150.01	22282	8.727	505.4	22.7	
3	Drain Concrete Bottom Raft	M20	21/01/2022	18/02/2022	151.38 X 149.72 X 149.28	22665	8.968	538.6	23.8	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-03-28-40** **Date: 18/02/2022**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Construction of CC Drain and Covering Slabs at in Ward No. 10 Doddabommasandra Vidyaranyapura Sub Division.

Agency : SRL BHARATH.S, BEECHAGONDAHALLY, S.K.HALLY POST, KOLAR, TALUK

Customer's Reference : BBMP/EE/BTP/WO/194/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-01-22

Customer ID : Drain Concrete Bottom Raft

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/02/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete Bottom Raft	M20	21/01/2022	18/02/2022	151.78 X 150.99 X 149.79	22917	8.264	545.8	23.8	23.4
2	Drain Concrete Bottom Raft	M20	21/01/2022	18/02/2022	150.64 X 149.74 X 149.41	22556	8.195	513.6	22.8	
3	Drain Concrete Bottom Raft	M20	21/01/2022	18/02/2022	149.05 X 149.27 X 151.41	22250	8.180	528.6	23.8	

* The results obtained are satisfactory as per standard requirements.

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Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-03-28-40** **Date: 31/01/2022**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Construction of CC Drain and Covering Slabs at in Ward No. 10 Doddabommasandra Vidyaranyapura Sub Division

Agency : SRI. BHARATH.S, BEECHAGONDAHALLY, S K HALLY POST, KOLAR, TALUK

Customer's Reference : BBMP/EE/BTP/WO/194/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-01-22

Customer ID : Drain Concrete Side Wall

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 31/01/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete Side Wall	M20	24/01/2022	31/01/2022	151.51 X 151.80 X 149.74	23000	8.842	414.3	18.0	18.2
2	Drain Concrete Side Wall	M20	24/01/2022	31/01/2022	150.86 X 150.54 X 151.11	22711	8.173	409.5	18.0	
3	Drain Concrete Side Wall	M20	24/01/2022	31/01/2022	150.89 X 151.22 X 151.19	22817	8.479	423.9	18.6	

* The results obtained are satisfactory as per standard requirements

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-03-28-40** **Date: 21/02/2022**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Construction of CC Drain and Covering Slabs at in Ward No. 10 Doddabommasandra Vidyaranyapura Sub Division.

Agency : SRL BHARATELS, BEECHAGONDAHALLY, S.K.HALLY POST, KOLAR, TALUK

Customer's Reference : BBMP/EE/BTP/WO/194/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-01-22

Customer ID : Drain Concrete Side Wall

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/02/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete Side Wall	M20	24/01/2022	21/02/2022	150.46 X 150.06 X 149.47	22578	8.421	537.4	23.8	23.1
2	Drain Concrete Side Wall	M20	24/01/2022	21/02/2022	149.76 X 149.93 X 150.94	22454	8.375	504.3	22.5	
3	Drain Concrete Side Wall	M20	24/01/2022	21/02/2022	149.36 X 150.95 X 149.53	22546	8.553	519.6	23.0	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-03-28-40** **Date: 31/01/2022**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore

Address : Vidyaranyapura Sub Division, BBMP, Bangalore

Project Name : Construction of CC Drain and Covering Slabs at in Ward No. 10 Doddabommasandra Vidyaranyapura Sub Division

Agency : SRI. BHARATH.S, BEECHAGONDAHALLY, S.K.HALLY POST, KOLAR, TALUK

Customer's Reference : BBMP/EE/BTP/WO/194/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-01-22

Customer ID : Drain Concrete Side Wall

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 31/01/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete Side Wall	M20	24/01/2022	31/01/2022	151.43 X 149.82 X 150.64	22688	9.030	426.5	18.8	18.6
2	Drain Concrete Side Wall	M20	24/01/2022	31/01/2022	151.97 X 150.15 X 150.75	22819	8.984	433.1	19.0	
3	Drain Concrete Side Wall	M20	24/01/2022	31/01/2022	149.55 X 151.62 X 151.74	22675	8.717	408.8	18.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-03-28-40** **Date: 21/02/2022**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Construction of CC Drain and Covering Slabs at in Ward No. 10 Doddabommasandra Vidyaranyapura Sub Division.

Agency : SRI. BHARATH.S, BEECHAGONDAHALLY, S.K.HALLY POST, KOLAR, TALUK

Customer's Reference : BBMP/EE/BTP/WO/194/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-01-22

Customer ID : Drain Concrete Side Wall

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/02/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete Side Wall	M20	24/01/2022	21/02/2022	150.30 X 150.71 X 150.33	22652	8.678	527.7	23.3	23.2
2	Drain Concrete Side Wall	M20	24/01/2022	21/02/2022	150.97 X 149.61 X 150.21	22587	8.598	510.0	22.6	
3	Drain Concrete Side Wall	M20	24/01/2022	21/02/2022	149.72 X 150.15 X 149.32	22482	8.295	535.2	23.8	

* The results obtained are satisfactory as per standard requirements.

Note:

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-03-28-40** **Date: 31/01/2022**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore

Address : Vidyaranyapura Sub Division, BBMP, Bangalore

Project Name : Construction of CC Drain and Covering Slabs at in Ward No 10 Doddabommasandra Vidyaranyapura Sub Division

Agency : SRI BHARATH S, BEECHAGONDAHALLY, S K HALLY POST, KOLAR, TALUK

Customer's Reference : BBMP/EE/BTP/WO/194/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-01-22

Customer ID : Drain Concrete Side Wall

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 31/01/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete Side Wall	M20	24/01/2022	31/01/2022	151.18 X 149.80 X 151.88	22646	8.110	420.1	18.5	18.6
2	Drain Concrete Side Wall	M20	24/01/2022	31/01/2022	150.50 X 151.26 X 150.24	22765	8.240	429.5	18.9	
3	Drain Concrete Side Wall	M20	24/01/2022	31/01/2022	151.61 X 149.01 X 150.62	22592	8.211	418.4	18.5	

* The results obtained are satisfactory as per standard requirements

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-03-28-40** **Date: 21/02/2022**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Construction of CC Drain and Covering Slabs at in Ward No. 10 Doddabommasandra Vidyaranyapura Sub Division

Agency : SRI. BHARATH.S, BEECHAGONDAHALLY, S.K.HALLY POST, KOLAR, TALUK

Customer's Reference : BBMP/EE/BTP/WO/194/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-01-22

Customer ID : Drain Concrete Side Wall

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/02/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete Side Wall	M20	24/01/2022	21/02/2022	151.85 X 151.21 X 151.16	22960	8.305	541.2	23.6	23.3
2	Drain Concrete Side Wall	M20	24/01/2022	21/02/2022	149.13 X 149.97 X 151.78	22366	8.123	496.5	22.2	
3	Drain Concrete Side Wall	M20	24/01/2022	21/02/2022	150.44 X 149.03 X 149.14	22421	8.457	538.0	24.0	

* The results obtained are satisfactory as per standard requirements.

Note:

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Format No CP/TF/2017

TEST REPORT FOR SAND MASONRY MORTARS

Lab ID	:	**CP-2022-03-28-40** **Date: 04-01-22**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC Drain and Covering Slabs at in Ward No. 10 Doddabommasandra Vidyaranyapura Sub Division.
Agency	:	SRI. BHARATH.S, BEECHAGONDAHALLY, S.K.HALLY POST, KOLAR. TALUK
Customer's Reference	:	BBMP/EE/BTP/WO/194/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-01-22
Sample Type	:	Fine Aggregate, M.Sand for Mortar
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2116-1980 (RA-2007) (Specification for Sand for Masonry Mortars) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	01-01-22
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS: 2116-1980 (RA-2007)
1	4.75 mm	0	0	0	100	100
2	2.36 mm	89	89	8.9	91.1	90-100
3	1.18 mm	160	249	24.9	75.1	70-100
4	600 micron	149	398	39.8	60.2	40-100
5	300 micron	112	510	51.0	49.0	5-70
6	150 micron	420	930	93.0	7.0	0-15
7	Pan	70	1000	100.0	0.0	0

Suresh. N.L
AE W10

AEE (VRP) SD

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TEST REPORT FOR SAND MASONRY MORTARS

Lab ID : **CP-2022-03-28-40** **Date: 04-01-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	3.16	_
2	Specific Gravity	2.5	_
3	Material finer than 75 micron(%)	12.5	Crushed Fine aggregate Max 15%
4	Compacted Bulk Density (Kg/litre)	1.95	_
5	Loose Bulk Density (Kg/litre)	1.75	_

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
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Samples will be disposed after 30 days from the date of issue of test certificate

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

AEE (VRP) SD

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